



COPY OF PAPERS  
ORIGINALLY FILED

PATENT

2123

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.: 10/058,150  
Filed: October 29, 2001  
Inventor(s):  
Brian Keith Odom, Joseph E.  
Peck, Hugo A. Andrade, Cary  
Paul Butler, James J. Truchard,  
Newton G. Petersen and Matthew  
Novacek

Title: Reconfigurable  
Measurement System  
Utilizing a Programmable  
Hardware Element and  
Fixed Hardware Resources

§ Examiner: Unknown  
§ Group/Art Unit: 2123  
§ Atty. Dkt. No: 5150-61502

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to Commissioner for Patents, Office of Initial Patent Examination, Customer Service Center, Washington, DC 20231, on the date indicated below.

Jeffrey C. Hood

Name of Registered Representative

*Jeffrey C. Hood*  
Signature

8/9/2002  
Date

INFORMATION DISCLOSURE STATEMENT

RECEIVED

AUG 19 2002

Technology Center 2100

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

Applicant requests consideration of ☒ the references listed on the attached Form PTO-1449 and/or ☐ the additional information identified below in paragraph 3. A copy of each of the references listed on the Form PTO-1449 were previously submitted to or cited by the U.S. Patent and Trademark Office in U.S. Application Serial Nos. 10/034,565; 09/499,503; and 09/229,695 now Patent No. 6,311,149 to which the captioned application is seeking priority under 35 U.S.C. §120.

1. This Information Disclosure Statement is submitted:

- a. ☐ within 3 months of the filing date of a national application other than a continued prosecution application under § 1.53(d);

- ☐ within 3 months of the date of entry of the national stage as set forth in § 1.491 in an International application;
- ☒ before the mailing date of a first Office Action on the merits; or
- ☐ before the mailing of a first Office Action after the filing of a request for continued examination under § 1.114.
- b. ☐ after the events of above paragraph 1a and prior to the mailing date of a final Office Action or Notice of Allowance, and thus: ☐ the certification of paragraph 2 below is provided, or ☐ a fee of \$180.00 is enclosed.
- c. ☐ after the mailing date of a final Office Action or a Notice of Allowance and prior to payment of the issue fee, and thus: the certification of paragraph 2 below is provided and a fee of \$180.00 is enclosed.
2. It is hereby certified:
- ☐ that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Statement, or
- ☐ that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the person signing the certification after making reasonable inquiry, was known to any individual designated in § 1.56 (c) more than three months prior to the filing of the Statement.
3. ☐ Consideration of the following additional information (including any co-pending or abandoned U.S. applications, prior uses and/or sales, etc.) is requested:
4. For each non-English language reference listed on the attached Form PTO-1449:
- ☐ reference is made to an English language translation submitted herewith, and/or
- ☐ reference is made to a foreign patent office search report (in the English language) submitted herewith, and/or
- ☐ reference is made to an English language translation of a foreign patent office search report submitted herewith, and/or
- ☐ reference is made to the concise explanation contained in the specification of the present application at page(s) \_\_\_\_\_, and/or
- ☐ reference is made to the concise explanation set forth below:
5. ☐ Applicant also offers the following comments for the Examiner's consideration:

6. ☐ Also enclosed is a copy of a foreign search report citing these references.
7. ☐ The listed documents were brought to the attention of the Applicant(s) after payment of the issue fee in the captioned case. The documents were cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. Applicant(s) request this Information Disclosure Statement and attached Form PTO-1449 be placed in the file of the captioned application.
8. ☐ Applicant(s) request that the Information Disclosure Statement and attached Form PTO-1449 and references, which are being filed before the grant of the patent and pursuant to 37 C.F.R. § 1.97(i), be placed in the file of the captioned application.

**CHANGE OF ADDRESS**

The Patent Office is respectfully requested to direct all future correspondence for this case to the below-referenced address.

If any required fees are missing, the Commissioner is authorized to charge said fees to Conley, Rose & Tayon, P.C. Deposit Account No. 03-2769/5150-61502/JCH.

Respectfully submitted,



Jeffrey C. Hood  
Reg. No. 35,198  
Attorney for Applicant(s)

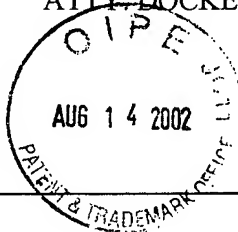
CONLEY, ROSE & TAYON, P.C.  
P. O. BOX 398  
AUSTIN, TEXAS 78767-0398  
(512) 476-1400

Date: 7/9/2002

**Form PTO-1449** (modified)  
List of Patents and Publications  
For Applicant's Information  
Disclosure Statement  
(Use several sheets if necessary)

ATTY-DOCKET NO: 5150-61502

SERIAL NO: 10/058,150



**COPY OF PAPERS  
ORIGINALLY FILED**

APPLICANT: Odom et al.

FILING DATE: October 29, 2001

GROUP: 2123

### U.S. PATENT DOCUMENTS

| EXAM.<br>INITIALS | REF.<br>DES | DOCUMENT<br>NUMBER | DATE       | NAME              | CLASS | SUB<br>CLASS | FILING DATE IF<br>APPROPRIATE |
|-------------------|-------------|--------------------|------------|-------------------|-------|--------------|-------------------------------|
|                   | A1          | 4,849,880          | 7/18/89    | Bhaskar et al.    |       |              |                               |
|                   | A2          | 4,901,221          | 2/13/90    | Kodosky et al.    |       |              |                               |
|                   | A3          | 5,109,504          | 4/28/92    | Littleton         |       |              |                               |
|                   | A4          | 5,437,464          | 8/1/95     | Terasima et al.   |       |              |                               |
|                   | A5          | 5,497,498          | 3/5/96     | Taylor            |       |              |                               |
|                   | A6          | 5,535,342          | 7/9/96     | Taylor            |       |              |                               |
|                   | A7          | 5,555,201          | 09/10/1996 | Dangelo et al.    |       |              |                               |
|                   | A8          | 5,566,295          | 10/15/96   | Cypher et al.     |       |              |                               |
|                   | A9          | 5,583,749          | 12/10/96   | Tredennick et al. |       |              |                               |
|                   | A10         | 5,603,043          | 02/11/1997 | Taylor et al.     |       |              |                               |
|                   | A11         | 5,603,043          | 2/11/97    | Taylor et al.     |       |              |                               |
|                   | A12         | 5,652,875          | 7/29/97    | Taylor            |       |              |                               |
|                   | A13         | 5,684,980          | 11/4/97    | Casselman         |       |              |                               |
|                   | A14         | 5,732,277          | 03/24/1998 | Kodosky et al.    |       |              |                               |
|                   | A15         | 5,784,275          | 7/21/98    | Sojoodi et al.    |       |              |                               |
|                   | A16         | 5,847,955          | 12/98      | Mitchell et al.   |       |              |                               |
|                   | A17         | 6,219,628          | 04/2001    | Kodosky et al.    |       |              |                               |
|                   | A18         | 6,226,776          | 05/01/2001 | Panchul et al.    |       |              |                               |
|                   | A19         | 6,230,307          | 05/082001  | Davis et al.      |       |              |                               |
|                   | A20         | 6,311,149          | 10/30/2001 | Ryan et al.       |       |              |                               |

**RECEIVED**

**AUG 19 2002**

**Technology Center 2100**

### FOREIGN PATENT DOCUMENTS

| EXAM.<br>INITIALS | REF.<br>DES | DOCUMENT<br>NUMBER | DATE    | COUNTRY | CLASS | SUB<br>CLASS | TRANSLATION.<br>YES/NO |
|-------------------|-------------|--------------------|---------|---------|-------|--------------|------------------------|
|                   | A21         | WO 94 10627 A      | 5/11/94 | PCT     |       |              |                        |
|                   | A22         | WO 94 15311 A      | 7/7/94  | PCT     |       |              |                        |
|                   | A23         | WO 96 14618 A      | 5/17/96 | PCT     |       |              |                        |

COPY PAPERS  
ORIGINALLY FILED

**Form PTO-1449** (modified)  
List of Patents and Publications  
For Applicant's Information  
Disclosure Statement  
(Use several sheets if necessary)

ATTY. DOCKET NO: 5150-61502

SERIAL NO: 10/058,150

**RECEIVED**

AUG 19 2002

Technology Center 2100



APPLICANT: Odom et al.

FILING DATE: October 29, 2001

GROUP: 2123

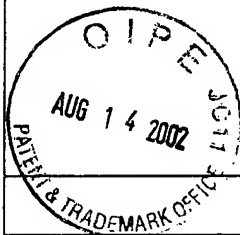
**OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)**

- |     |  |
|-----|--|
| A24 | Douglas, Bruce D., Ph.D., "Custom Embedded Communication Protocols, Conference Proceedings of Embedded Systems Conference East, March 10-12, 1997, Boston, Massachusetts, pp. 637-657.   |
| A25 | Labrosse, Jean, "Inside Real-Time Kernels," Conference Proceedings of Embedded Systems Conference East, March 10-12, 1997, Boston, Massachusetts, pp. 205-214.   |
| A26 | Labrosse, Jean, "Designing with Real-Time Kernels," Conference Proceedings of Embedded Systems Conference East, March 10-12, 1997, Boston, Massachusetts, pp. 379-389.   |
| A27 | Operating Systems, 2 <sup>nd</sup> Ed. By Williams Stallings, Prentice Hall, 1995, "Multiprocessor and Real-Time Scheduling", pp. 394-415.   |
| A28 | International Search Report for PCT/US 98/10916 dated 9/17/98.   |
| A29 | "LabVIEW USER MANUAL for Windows", National Instruments Co., pp. 4/1-21.   |
| A30 | Beguelin et al., "Visualization and Debugging in a Heterogenous Environment," IEEE, pp. 88-95.   |
| A31 | Jamal et al., "The Applicability of the Visual Programming Language LabView to Large Real-World Application," IEEE, pp. 99-106.  |
| A32 | Per-Arne Wiberg, "Graphical Programming of Time-Deterministic Real-Time Systems," IEEE, pp. 173-180.   |
| A33 | XP0002087124 Xiao-Yu, et al., "Software Environment for WASMII: A Data Driven Machine with a Virtual Harware," Field Programmable Logic Architectures, Synthesis and Applications, 4 <sup>th</sup> International Workshop on Field-Programmable Logic and Applications, FPL '94 Proceedings, Berlin Germany, 1994.   |
| A34 | XP000554820 Edwards, et al., "Software acceleration using programmable hardware devices," IEEE Proceedings: Computers and Digital Techniques, Vol. 143, No. 1, January 1996, pp. 55-63.  |
| A35 | XP000380758 Lesser, et al., "High Level Synthesis and Generating FPGAs with the BEDROC System," Journal of VLSI Signal Processing, Vol. 6, No. 2, August 1993, pp. 191-214.  |
| A36 | International Search Report for PCT/US 98/13040 mailed 12/22/98.   |
| A37 | Ade, M; Lauwereins, R; Peperstraete, J.A.; Hardware-Software Codesign with GRAPE, Proceedings of the Sixth IEEE International Workshop on Rapid System Prototyping, pp. 40-47, June 1995.  |
| A38 | De Coster, GRAPE-II: An Introduction [online]. Automatic Control and Computer Architectures Department. Katholieke Universiteit Leuven, Belgium, February 22, 1996 [retrieved October 6, 1999] Retrieved from the Internet @ <a href="http://www.esat.kuleuven.ac.be/acca">http://www.esat.kuleuven.ac.be/acca</a> . |

**Form PTO-1449** (modified)  
List of Patents and Publications  
For Applicant's Information  
Disclosure Statement  
(Use several sheets if necessary)

ATTY. DOCKET NO: 5150-61502

SERIAL NO: 10/058,150



**COPY OF PAPERS  
ORIGINALLY FILED**

**RECEIVED**

AUG 19 2002

APPLICANT: Odom et al.

**Technology Center 2100**

FILING DATE: October 29, 2001

GROUP: 2123

**OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)**

|     |   |
|-----|---|
| A39 | Wenban et al., A Software Development System for FPGA-based Data Acquisition Systems, Proceedings of the IEEE Symposium on FPGAs for Custom Computing Machines, pp. 28-37, April 1996.                      |
| A40 | Collamati et al. "Induction Machine Stator Fault On-line Diagnosis Based on LabVIEW Environment", Mediterranean Electrotechnical Conference, Vol. 1, pg. 495-498, May 1996.                                 |
| A41 | Spoelder et al., "Virtual Instrumentation: A Survey of Standards and Their Interrelation", Proc. IEEE Instr. And Measurement Tech. Conf., Vol. 1, pp. 676-681, May 1997.                                    |
| A42 | Srinivasan et al., "LabVIEW program Design for On-Line Data Acquisition and Predictive Maintenance", Proc. Of the 30th Southeastern Symp. On System Theory, pp. 520-524, March 1998.                        |
| A43 | Wahidanabanu et al., "Virtual Instrumentation with Graphical Programming for Enhanced Detection and Monitoring of Partial Discharges", Proc. Electrical Insulation Conf. 1997, pp. 291-296, September 1997. |
| A44 | Fountain: "Software advances in measurement and instrumentation"; IEE Coll. Software Instrumentation; pp. 4/1 to 4/45.  |

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the patent owner.

Information Disclosure Statement--PTO 1449 (modified)

K:\N\NATLINST\NATLINST6\61502\Pto\PTO.1449.61502.doc